

Riemann function $\xi(t)$.—F. La Porte: The compensation of a quadrilateral.—H. Pelabon: Thermo-electric study of selenium-antimony mixtures. The existence of the definite compound Sb_2Se_3 was proved by these measurements.—Paul Pascal: Uranyl sulphocyanide.—R. Marcellin: The exchange of material between a liquid or a solid and its saturated vapour.—Maurice Curie: The deviations of atomic weights obtained with lead arising from different minerals. The atomic weight of lead derived from uranium minerals is lower and from monazite slightly higher than that of lead from galena. These results are in agreement with those predicted from the theory of radio-active transformations.—Philip E. Browning: The action of bromine on the hydroxides of lanthanum and didymium. These hydroxides, in suspension in dilute alkali solutions, dissolve in bromine with unequal velocities, the solution of the lanthanum being more rapid. A description is given of the application of this fact to a new and rapid method of separation of these two metals.—Edouard Bauer: The action of sodium amide upon some 1:5-diketones. Study of products of the reaction between sodium amide and the two ketones, benzaldiacetophenone and dibenzoyl-1:3-propane.—Milivoye Losanitch: The susceptibility of the ethylene lactones for fixing sodium derivatives of methylene compounds.—E. E. Blaise: The hydroxylamine derivatives of 1:4-diketones and N-oxy-2:5-dimethylpyrrol. The reaction between hydroxylamine and diacetylsuccinic ester is not comparable with that of the same reagent and 1:4 diketones. In the latter case only mono- and di-oximes are formed.—G. Courtois: Uranyl glycolate, and lactate and some uranyl salts of the polyacids of the fatty series.—Charles Dufraisse: The two stereoisomeric forms of benzoylphenylacetylene dibromide. The two isomers have been isolated, one of which is coloured and the other colourless.—Mlle. H. Van Risseghem: β -Pentene and some of its derivatives.—G. Chavanne: The ethylene isomerism of the α -bromopropenes.—Mme. E. Bloch: The modifications produced in the structure of roots and stems by an external compression. In all plants grown under compression there is an abundant liquefaction of the medullary parenchyma.—F. Gérard: Three new species of Chlænaceæ.—P. Hariot: Two new Chytridiaceæ.—J. Tissot: The mechanism of the inactivation of sera by dialysis. The conditions governing the dissociation of the soaps in the serum.—H. Violle: The pathogeny of cholera. The cholera bacillus only develops in a limited zone of the intestine, and only then if this zone is free from all biliary secretion. The liver is thus one of the natural defences of the body against cholera.—Th. Nogier and Cl. Regaud: The decrease in the radio-sensibility of malignant tumours treated with successive doses of X-rays. Auto-immunisation against X-rays.—M. Lécaillon: The phenomena of natural rudimentary parthenogenesis produced in *Turtur risorius*.—H. Stassano and M. Gompel: The considerable bactericidal power of mercuric iodide. Mercuric iodide has much greater power in killing bacteria than either mercuric cyanide, benzoate, or chloride. It is ten times as active as corrosive sublimate.—A. Fernbach and M. Schoen: New observations on the production of pyruvic acid by yeast.—Jean Groth: The Sierra Morena.—M. Dalloni: The tectonic of the Catalan Pyrenees and the supposed "nappe de Montsech".—Léon Lutaud: The raised beaches of the coast of Estérel.—Robert César-Franck: The relations between the geological constitution of the Isle of Wight and the form of its coast line.—Philippe Flajolef: Perturbations of the magnetic declination at Lyons (Saint Genis Laval) during the first quarter of 1914.

BOOKS RECEIVED.

- Meteorology in Mysore for 1912. By N. V. Iyengar. Pp. xi+56. (Bangalore: Government Press.)
- Report on the Lepidoptera of the Smithsonian Biological Survey of the Panama Canal Zone. By H. G. Dyar. Pp. 139-350. (Washington: Government Printing Office.)
- Report on the Progress of Agriculture in India for 1912-13. Pp. iii+69. (Calcutta: Government Printing Office.) 8 annas.
- Department of Lands and Survey, Western Australia. Handbook for Surveyors and Draftsmen. Compiled by N. S. Bartlett. Pp. ii+110 and Appendices. (Perth, W.A.: F. W. Simpson.)
- Mendels Vererbungstheorien. By W. Bateson. Translated by A. Winckler. Pp. x+375. (Leipzig and Berlin: B. G. Teubner.) 12 marks.
- Pflanzenanatomie. By W. I. Palladin. Translated by Dr. S. Tschulok. Pp. iv+195. (Leipzig and Berlin: B. G. Teubner.) 4.40 marks.
- The Social Guide. By Mrs. H. Adams and E. A. Browne. Pp. 264. (London: A. and C. Black.) 2s. 6d. net.
- The Elements of Chemistry. By H. L. Bassett. Pp. xii+368. (London: Crosby Lockwood and Son.) 4s. 6d.
- L'Harmonie Tourbillonnaire de l'Atome. By F. Butavand. Pp. 52. (Paris: Gauthier-Villars et Cie.) 2 francs.
- Chemical Calculations. By H. W. Bausor. Pp. iv+136. (London: W. B. Clive.) 2s.
- Chemical Calculations. (Advanced Course.) By H. W. Bausor. Pp. iv+48. (London: W. B. Clive.) 1s.
- Fortschritte der Mineralogie, Kristallographie, und Petrographie. Edited by Prof. G. Linck. Vierter Band. Pp. iv+384. (Jena: G. Fischer.) 12 marks.
- Lehrbuch der Biologie für Hochschulen. By M. Nussbaum, G. Karsten, and M. Weber. Zweite Auflage. Pp. viii+598. (Leipzig and Berlin: W. Engelmann.) 12 marks.
- Hypnose und Katalepsie bei Tieren. By Prof. E. Mangold. Pp. 82. (Jena: G. Fischer.) 2.50 marks.
- Die Mechanistischen Grundgesetze des Lebens. By A. Cohen-Kysper. Pp. viii+373. (Leipzig: A. Barth.) 7 marks.
- Modern Substitutes for Traditional Christianity. By E. McClure. Second edition. Pp. viii+224. (London: S.P.C.K.) 2s. 6d. net.
- Philosophy: What Is It? By Prof. J. B. Jevons. Pp. vii+135. (Cambridge: University Press.) 1s. 6d. net.
- Know Your Own Mind. By W. Glover. Pp. ix+204. (Cambridge: University Press.) 2s. net.
- Bacon's Large-scale Map of Australia. In four sheets mounted on cloth to fold in cloth case. (London: G. W. Bacon and Co., Ltd.) 25s.
- Psychopathology of Everyday Life. By Prof. S. Freud. Authorised English edition, with Introduction. By Dr. A. A. Brill. Pp. vii+342. (London: T. Fisher Unwin.) 12s. 6d. net.
- The Pursuit of Natural Knowledge. By Prof. J. R. Ainsworth-Davis. Pp. iv+284. (Cheltenham: Norman, Sawyer and Co., Ltd.) 1s. net.
- Minerals and the Microscope. By H. G. Smith. Pp. xi+116. (London: T. Murby and Co.) 3s. 6d. net.
- The History and Theory of Vitalism. By Prof. H. Driesch. Translated by C. K. Ogden. Pp. viii+239. (London: Macmillan and Co., Ltd.) 5s. net.
- The Thinking Hand: or Practical Education in the Elementary School. By J. G. Legge. Pp. x+217. (London: Macmillan and Co., Ltd.) 8s. 6d. net.

Memorials of Henry Forbes Julian. Written and edited by his Wife, Hester Julian. Pp. xix+310. (London: C. Griffin and Co., Ltd.) 6s. net.

Alcoholic Fermentation. By Dr. A. Harden. Second edition. Pp. vii+156. (London: Longmans and Co.) 4s. net.

Memoirs of the Department of Agriculture in India. Entomological Series. Vol. v., No. 1., Life-histories of Indian Insects; v., Lepidoptera (Butterflies). By C. C. Ghosh. Pp. iv+72+ix plates. (Pusa: Agricultural Research Institute.) 3s. 9d.

The Natural History of the Farm. By Prof. J. G. Needham. Pp. 348. (Ithaca, N.Y.: Comstock Publishing Co.) 1.50 dollars.

Edinburgh and East of Scotland College of Agriculture. Investigation into the Disease of Sheep called "Scrapie" (Traberkrankheit; La Tremblante), by Dr. J. P. M'Gowan. Pp. ix+116. (Edinburgh: W. Blackwood and Sons.)

Cambridge Manuals of Science and Literature: The Making of Leather. By H. R. Procter. Pp. x+153. The Sun, by Dr. R. A. Sampson. Pp. viii+141. Coal Mining. By T. C. Cantrill. Pp. viii+159. (Cambridge University Press.) 1s. net each.

Lehrbuch der Meteorologie. By Prof. J. Hann. Dritte Auflage. Lief. 4, 5, 6, 7. Pp. 289-640. (Leipzig: C. H. Tauchnitz.) 3.60 marks each.

The Oxford Survey of the British Empire. Edited by Prof. A. J. Herbertson and O. J. R. Howarth. The British Isles and Mediterranean Possessions. Pp. xii+596+7 maps. Asia, including the Indian Empire and Dependencies, Ceylon, British Malaya, and Far Eastern Possessions. Pp. x+505+5 maps. Africa, including South Africa, Rhodesia, Nyasaland, British East Africa, Uganda, Somaliland, Anglo-Egyptian Sudan and Egypt, etc. Pp. xvi+547+5 maps. America, including Canada, Newfoundland, the British West Indies, and the Falkland Islands and Dependencies. Pp. x+511+6 maps. Australasia, including Australia, New Zealand, the Western Pacific, and the British Sector in Antarctica. Pp. xii+584. General Survey, including Administration, Legal Problems, History, Defence, Education, Acclimatisation, Mapping, Commerce, Communication, Migration. Pp. viii+386+1 map. (Oxford: Clarendon Press.) 14s. net each.

DIARY OF SOCIETIES.

THURSDAY, JUNE 18.

ROYAL SOCIETY, at 4.30.—(1) Trypanosome Diseases of Domestic Animals in Nyasaland. *Trypanosoma Caprae*, Kleine. III: Development in *Glossina morsitans*; (2) Trypanosomes found in Wild *Glossina morsitans* and Wild Game in the "Fly-Belt" of the Upper Shire Valley; (3) The Food of *Glossina morsitans*; (4) Infectivity of *Glossina morsitans* in Nyasaland during 1912 and 1913: Sir D. Bruce, Maj. A. E. Hamerton, Capt. D. P. Watson and Lady Bruce.—A Description of the Skull and Skeleton of a Peculiarly Modified Rupicaprine Antelope *Myotragus balearicus*, Bate: Dr. C. W. Andrews.—The Relation between the Thymus and the Generative Organs, and on the Influence of these Organs upon Growth (With a Note by G. U. Yule): E. T. Halnan and F. H. A. Marshall.—The Vapour Pressure Hypothesis of Contraction of Striated Muscle: H. E. Roaf.—The Validity of the Microchemical Test for the Oxygen Place in Tissues: A. N. Drury.—Man's Mechanical Efficiency: Prof. J. S. Macdonald.—The Colouring Matters in the Compound Ascidian *Diazona violacea*, Savigny: Dr. A. Holt.—Some Accessory Factors in Plant Growth and Nutrition: Prof. W. B. Bottomley.—A Photographic Analysis of Explosion-flames Traversing a Magnetic Field: Prof. H. B. Dixon, C. Campbell, and W. E. Slater.

LINNEAN SOCIETY, at 8.—Reports on the Marine Biology of the Sudanese Red Sea: The Brachyura: R. Douglas Laurie.—A Revision of the Recent Colonial Ascididae Possessing Distinct Corallites: G. Matthai.—Two Lithens: *Lecanora isidioides*, Nyl., from the New Forest; and *Parmelia revoluta* var. *concentrica*, Cromb., from Seaford Downs: R. Paulson.—Ecological Notes, chiefly Cryptogamia; the late W. West.—Life-histories and Descriptions of Australian *Æschinae*. (With a Description of a New Form of Telephobia by H. Campion): R. J. Tillyard.—The Life-history and Structure of *Telephorus lituratus*: Miss Olga G. M. Payne.—Cucujidae, Cryptophagidae, avec une Description de la larve et de la nymphe de *Protominia convexiuscula*, Grouvelle: A. Grouvelle.—Mallophaga, Aphaniptera, and Diptera Puparia. (Percy Sladen Expedition): H. Scott.—Short Cuts to Nectararies by Blue Tits: C. F. M.

Swynnerton.—Photographs of Large-tailed Sheep of the Punjab: Dr. G. Henderson.

ROYAL GEOGRAPHICAL SOCIETY, at 5.—Final Report on the Rivers Investigation: Dr. A. Strahan and Others.

MONDAY, JUNE 22.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Exploration in the Unknown Brahmaputra Region on the North-Eastern Frontier of India: Captain F. M. Bailey.

VICTORIA INSTITUTE, at 4.30.—Annual Address: Jerusalem, Past and Present: Sir C. M. Watson.

WEDNESDAY, JUNE 24.

GEOLOGICAL SOCIETY, at 8.—The Trilobite Fauna of the Abbey Shales, near Hartshill: V. C. Illing.—Notes on the Trilobite Fauna of the Middle Cambrian of the St. Tudwal's Peninsula (Carnarvonshire): T. C. Nicholas.

THURSDAY, JUNE 25.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Note on Mr. Mallock's Observations on Intermittent Vision: Prof. S. P. Thompson.—The Variation of Electrical Potential across a Semipermeable Membrane: Prof. F. G. Donnan and G. M. Green.—The Potential of Ellipsoidal Bodies and the Figures of Equilibrium of Rotating Liquid Masses: J. H. Jeans.—The Twenty-seven-Day Period in Magnetic Phenomena: Dr. C. Chree.—Electrification of Water by Splashing and Spraying: J. J. Nolan.—Attempts to Produce the Rare Gases by Electric Discharge: T. R. Merton.—The Analysis of Gases after Passage of Electric Discharges: O. C. G. Egerton.—*And other Papers*.

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